

U.S. Application No.: 09/744,634  
AMENDMENT B

Attorney Docket: 3926.018

**IN THE CLAIMS:**

1. (previously amended) A device for projecting a color enhanced color image upon a screen (S) including  
a projection lamp (PL) for emission of a radiation spectrum,

a beam splitter (ST2) for separation of the radiation spectrum emitted from the projection lamp into a first partial light bundle (B1, G1, R1) and a second partial light bundle (B2, G2, R2) complimentary to the first part light bundle (B1, G1, R1),

two color image modulators (FM1, FM2) for reproducing images in the respective partial light bundles (B1, G1, R1, B2, G2, R2),

a beam integrator (SV) provided subsequent to the color image modulators (FM1, FM2) for reuniting the first partial light bundle (B1, G1, R1) with the second partial light bundle (B2, G2, R2), and a lens system (Ob) for output of the therefrom resulting color image,

wherein said first partial light bundle (B1, G1, R1) is defined by a first RBG triangle of an X,Y chromaticity diagram, and said second partial light bundle (B2, G2, R2) is defined by a second RBG triangle of an X,Y chromaticity diagram including colors outside said first X,Y chromaticity diagram, such that the combination of said first and second partial light bundles

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produces a color image enhanced in comparison to that produced by one partial light bundle alone.

2. (previously amended) A device according to Claim 1, wherein the beam splitter (ST2) includes a splitter dichroic mirror (D1) with triple band pass characteristic (B1, G1, R1).

3. (previously amended) A device according to Claim 2 [1], wherein the beam integrator (SV) includes an integrator dichroic mirror (D2) with the other triple band characteristic (B2, G2, R2).

4. Cancelled

5. (previously amended) A device according to Claim 1, wherein the first partial light bundle is comprised of three first narrow transmission ranges (B1, G1, R1) and the second partial light bundle is comprised of three second narrow transmission ranges (B2, G2, R2) complimentary to the first transmission ranges, wherein the transmission ranges (B1, G1, R1, B2, G2, R2) lie within the wavelength ranges of the blue, green and red receptors.

6. (previously amended) A device according to Claim 1, wherein the beam splitter (ST2) includes at least one splitter mirror.

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7. (previously amended) A device according to Claim 1, wherein the beam integrator (SV) includes at least one integrator mirror.

8. (previously amended) A device according to Claim 1, further including a pair of glasses (B) with interference filters (IF1, IF2) which provide different transmission characteristics for the left eye and the right eye, which produce for the left eye a half image with the first transmission range (B1, G1, R1) and for the right eye a further half image with the second transmission range (B2, G2, R2) for stereoscopic vision.

9. Cancelled  
10. Cancelled  
11. Cancelled  
12. Cancelled

13. (original) A device for projecting a color enhanced color image upon a screen (S) including

a projection lamp (PL) for emission of a radiation spectrum,

a beam splitter (ST2) for separation of the radiation spectrum emitted from the projection lamp into a first partial light bundle (B1, G1, R1) and a second partial light bundle (B2, G2, R2) complimentary to the first part light bundle (B1, G1, R1),

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two color image modulators (FM1, FM2) for reproducing images in the respective partial light bundles (B1, G1, R1, B2, G2, R2),

a beam integrator (SV) [is] provided subsequent to the color image modulators (FM1, FM2) for reuniting the first partial light bundle (B1, G1, R1) with the second partial light bundle (B2, G2, R2), and a lens system (Ob) for output of the therefrom resulting color image,

wherein said first partial light bundle (B1, G1, R1) is defined by a first RBG triangle of an X,Y chromaticity diagram, and said second partial light bundle (B2, G2, R2) is defined by a second RBG triangle of an X,Y chromaticity diagram including colors outside said first X,Y chromaticity diagram, such that the combination of said first and second partial light bundles produces a color image enhanced in comparison to that produced by one partial light bundle alone, and

wherein said partial light bundles lie within 430 - 480 nm for spectral region blue, 500 - 550 nm for spectral region green, and 600 - 650 nm for spectral region red.

**REMARKS**

Review and reconsideration of the Office Action of February 13, 2003 is respectfully requested in view of the above amendments and the following remarks.

**Office Action**

Turning now to the Office Action in detail, the